

# NAUTICAST™-B AIS CLASS B

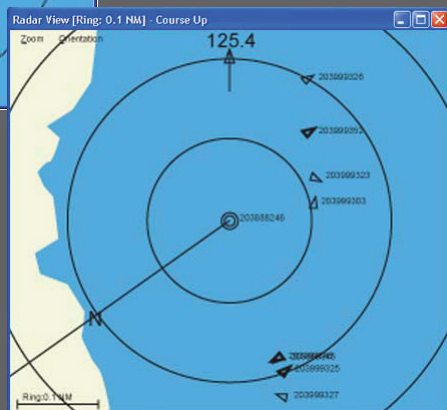
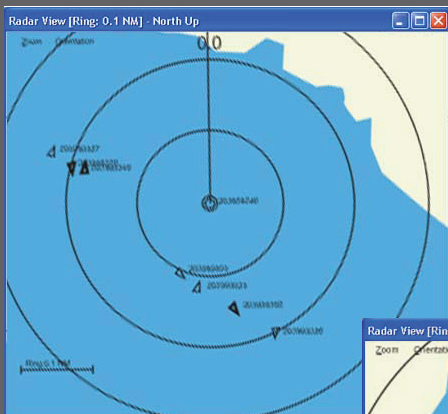
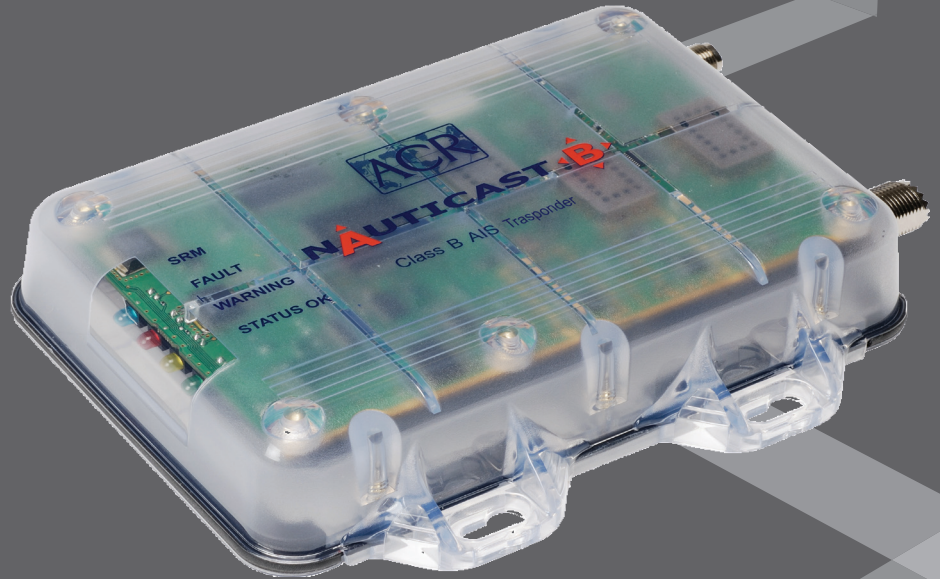
## AUTOMATIC IDENTIFICATION SYSTEM

The Nauticast™-B Automatic Identification System from ACR Electronics is a Class B transponder that is designed to bring you the best in bridge electronics. The Nauticast™-B offers a great value and an excellent feature set.

The Nauticast™-B is a black box solution that comes to you as a compact, all-in-one kit, providing you with space savings and simplicity. The kit includes both VHF and GPS antennas and ACR's Link2AIS™ Software. The Link2AIS™ Software may be installed on an onboard PC, or third party software that is AIS-capable may be used. The Nauticast™-B also can be interfaced to chart plotters/Multi Functional Displays (MFDs) which display targets.

The transponder has an external Safety Related Message (SRM) feature, with user configurable messages. The transponder can be mounted below deck for added convenience.

AIS is an acronym for Automation Identification System. AIS increases navigational domain awareness by transmitting vessel identification, position, course, and speed to other AIS equipped vessels and base stations. This helps reduce the difficulty of identifying ships when not in sight and understanding their navigational intentions.



Link2AIS™ software provides coastline detail, shown are user selectable radar views, North Up and Course Up

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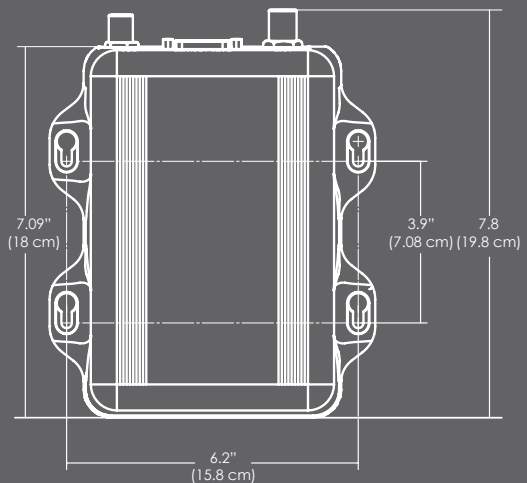
// Alluring measurements of 7.8 x 6.2 x 1.8" (19.8 x 15.8 x 4.7 cm).  
Lightweight and small, this unit won't take up much space mounted under the dash

// Inventive technology at its best! ACR AIS products undergo stringent quality internal and external testing

// Quick installation! Three sockets suffice to connect power, sensors, and antennas; initial transponder operation is up and running within minutes

// Black box system includes: Class B AIS transponder, GPS and VHF antennas, data/power cables. Optional remote safety message switch available

// Data cable directly interfaces with the vessel's chart plotter or laptop



## Specifications

|             |   |
|-------------|---|
| Part Number | 2680  |
| Dimensions  | 7.8 x 6.2 x 1.84" (18 x 15.8 x 4.7 cm)                                |
| Weight      | 13.2 oz. (375 g)  |
| Power       | DC (9.6-15.6V). Average power consumption 4W. Peak current rating 2A. |

|                       |  |
|-----------------------|--|
| GPS Receiver          | AIS Internal, IEC 61108-1 compliant  |
| Electrical Interfaces | RS232, 38.4k baud bidirectional  |
| Antennas              | VHF Antenna connector (UHF female bulkhead connector)<br>GPS Antenna connector (TNC female bulkhead connector) |
| Interface Cable       | 15 pin DSUB connector with 4 leads: Data-RS232; Data-RS422; Remote switch; Power                               |

|                   |   |
|-------------------|---|
| VHF Transceiver   | Transmitter x1<br>Receiver x 2 (one receiver time shared between AIS and DSC) |
| AIS1: 161.975 MHz | Frequency 156.025-162.025 MHz in 25kHz steps                                  |
| AIS2: 162.025 MHz | Frequency 156.025-162.025 MHz in 25kHz steps                                  |
| Output Power      | 2W (33dBm +/- 1.5 dB)   |
| Channel Bandwidth | 25kHz   |
| Channel Step      | 25kHz   |
| Modulation Modes  | 25 kHz GMSK (AIS, TX and RX), 25 kHz AFSK (DSC, RX only)                      |
| Bit Rate          | 9600 b/s +/- 50 ppm (GMSK)<br>1200 b/s +/- 30 ppm (FSK)                       |

|                |   |
|----------------|---|
| RX Sensitivity | Sensitivity - 107 dBm 25kHz (message error rate 20%)<br>Co-channel 10dB, Adjacent Channel 70dB, IMD 65dB, Blocking 84dB |
| Environmental  | IEC 60945, IP 67  |

|                       |   |
|-----------------------|---|
| Operating Temperature | -13° to 131°F (-25° to 55°C)  |
| Indicators            | Power, TX timeout, status, pre-set SRM sent or Silent Mode  |
| Operator Controls     | Optional pre-set safety related message (SRM) transmit button or Silent Mode (No transmit, user configured) |

|           |                               |
|-----------|-------------------------------|
| Approvals | FCC, USCG, R&TTE Phoneix, BSH |
|-----------|-------------------------------|



**We build quality products knowing they are used to save lives.**

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For over 50 years, ACR has built quality products knowing they are used to save lives. Please call or write for a complete catalogue of safety and survival products.



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